

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Ludmila Cherkasova, et al.

Confirmation No.:

Application No.: 10/601,956

Examiner:

Filing Date: June 23, 2003

Group Art Unit:

Title: SYSTEM AND METHOD FOR MODELING THE MEMORY STATE OF A STREAMING
MEDIA SERVER

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before
mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e)(1) or (2), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
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Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the
pendency of this application, please charge any fees required or credit any overpayment to Deposit
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☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with
copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s)
believe(s) may be material to the examination of this application and for which there may be a duty to
disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications
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individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the
attached sheet, or where a foreign language patent is cited in a search report or other action by a
foreign patent office in a counterpart foreign application, an English language version of the search
report or action which indicates the degree of relevance found by the foreign office is listed on form PTO
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It is requested that the information disclosed herein be made of record in this application.

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Respectfully submitted,

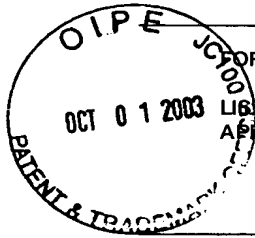
Ludmila Cherkasova, et al.

By [Signature]
Jody C. Bishop

Attorney/Agent for Applicant(s)
Reg. No. **44,034**

Date: **Sept. 29, 2003**

Telephone No.: **(214) 855-8007**



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200311045-1

APPLICATION NO.

10/601,956

CONFIRMATION NO.

APPLICANT

Ludmila Cherkasova et al.

FILING DATE

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GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	5,732,239	03-24-1998	Tobagi et al.	
	1B	5,734,119	03-31-1998	France et al.	
	1C	5,815,662	09-29-1998	Ong	
	1D	6,101,547	08-08-2000	Mukherjee et al.	
	1E	6,178,480 B1	01-23-2001	Tobagi et al.	
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	1G	6,466,980 B1	10-15-2002	Lumelsky et al.	
	1H	2002/0083124	06-27-2002	Knox et al.	
	1I	2002/0091722	07-11-2002	Gupta et al.	
	1J	2002/0129048	09-12-2002	Qiu et al.	
	1K	2002/0150102	10-17-2002	Janko et al.	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	CHASE, J. et al., "Managing Energy and Server Resources in Hosting Centers," Dept. of Computer Science, Duke University, 14 pages
	1R	EAGER, D. et al., "Optimal and Efficient Merging Schedules for Video-on-Demand Servers," Proc. ACM Multimedia 1999, 4 pages
	1S	NAHRSTEDT, K. et al., "A Probe-based Algorithm for QoS Specification and Adaptation," Univ. of Illinois at Urbana Champaign, pages 1 - 12

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	2A	2002/0156552	10-24-2002	Whiting	
	2B	10/306,279		Cherkasova et al.	
	2C				
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	2E				
	2F				
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	2J				
	2K				

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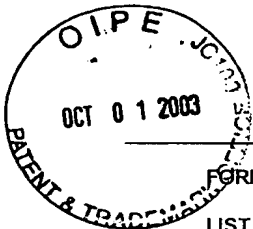
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	2Q	NAHRSTEDT, K. et al., "QoS-Aware Resource Managment for Distributed Multimedia Applications," Univ. of Illinois at Urbana Champaign, Dept. of Computer Science, pages 1-37
	2R	RANJAN, S. et al., "QoS-Driven Server Migration for Internet Data Centers," Proc. of IWQoS 2002, 10 pages
	2S	SHENOY, P. et al., "Middleware versus Native OS Support: Architectural Considerations for Supporting Multimedia Applications," Univ. of Massachusetts, Dept. of Computer Science, 10 pages

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PATENT APPLICATION

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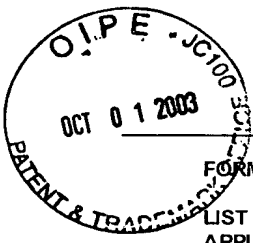
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

3Q	CHERKOSOVA, L. et al., "Building a Performance Model of Streaming Media Applications in Utility Data Center Environment," Hewlett-Packard Laboratories, Internet Systems and Storage Lab, 12 pages
3R	ACHARYA, S. et al., "Characterizing User Access To Videos On The World Wide Web," Part of the IS&T/SPIE Conference on Multimedia computing and Networking 2000, SPIE Vol. 3969, 2000, pages 130-141
3S	ALMEIDA, J. et al., "Analysis of Educational Media Server Workloads," Proc. 11th Int'l. Workshop, 2001, 10 pages

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	4P					

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4Q	DAN, A. et al., "Buffering and Caching in Large-Scale Video Servers," IEEE 1995, pgs 217-224
4R	KIM, I. et al., "VBR Video Data Scheduling using Window-Based Prefetching," IEEE 1999, pgs 159-164
4S	CHERKASOVA, L. et al., "Characterizing Locality, Evolution, and Life span of Accesses in Enterprise Media Server Workloads," NOSSDAV '02, May 12-14, 2002, 10 pages

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